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CLAIMS

What is claimed is:

and Aa

- A method of monitoring resource units in a group, comprising:
 - (a) \providing a group of resource units;
- (b) determining a thickness of one or more of the resource units; and
 - (c) indicating when the group of resource units reaches a predetermined size after one or more of the resource units has been moved from the group and responsive to the determination of thickness in step (b).
- 10 2. The method of claim 1 wherein the group of resource units is a stack of sheet articles in a mail insertion system.
 - 3. The method of claim a further comprising detecting the size of the group of resource units prior to any resource units being moved from the group.
 - 4. The method of claim 3 wherein detecting the size of the group of resource units includes providing a sensor for determining when the size of the group of resource units is less than a second predetermined size.
 - 5. The method of claim 1 wherein determining the thickness further includes providing a device for measuring the thickness of the one or more resource units as the one or more resource units are moved from the group.
 - 6. The method of claim 1 wherein the resource units are in a stack, and the resource units are moved from the group by removing resource units from the bottom of the stack.
 - 7. The method of claim 1 wherein indicating when the group of resource units reaches a predetermined size includes:

- (a) detecting when the size of the group of resource units is equal to a second predetermined size;
- (b) when the size of the group of resource units is equal to the second predetermined size, determining the number of resource units moved from the group; and
- (c) when the number of resource units moved from the group is equal to a predetermined number, indicating the group is equal to the predetermined size.
- 8. The method of claim 1 further including disabling the moving of resource units when the group of resource units reaches the predetermined size.
- 9. A method of monitoring resource units in a group of resource units, comprising:
 - (a) detecting size of a group of resource units; and
 - (b) calculating, based upon the thicknesses of at least one of the resource units, when the group of resource units reaches a predetermined size after one or more resource units has been moved from the group.
- 10. The method of claim 9 wherein the group of resource units is a group of sheet articles in a mail insertion system.
- 20 11. The method of claim 9 further complising detecting the size of the group of resource units prior to any resource units being moved from the group.
 - 12. The method of claim 11 wherein detecting the size of the group of resource units includes providing a sensor for determining when the size of the group of resource units is less than a predetermined size.

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- 13. The method of claim 9 wherein calculating when the group of resource units reaches a predetermined size further includes providing a device for measuring the thickness of the one or more resource units as the one or more resource units are moved from the group.
- 5 14. The method of claim 9 wherein calculating when the group of resource units reaches a predetermined size further includes:
 - (a) determining whether the number of resource units moved from the group is equal to a predetermined number; and
 - (b) when the number of resource units moved is equal to the predetermined number, indicating that the size of the resource units is equal to the predetermined number.
 - 15. The method of claim 9 further including disabling the moving of resource units when the group of resource units reaches the predetermined size.
 - 16. A method for controlling removal of sheet articles from a stack, comprising:
 - (a) detecting a level of a stack of sheet articles;
 - (b) removing one or more sheet articles from the stack;
 - (c) determining a thickness of at least one of the sheet articles removed from the stack;
 - (d) indicating when the stack of sheet articles reaches a predetermined level and responsive to the determination of thickness in step (d); and
 - (e) selectively stopping removal of sheet articles from the stack.
- 17. The method of claim 16 wherein detecting the level of a stack of sheet articles from a stack further includes providing a sensor for determining

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when the level of the stack of sheet articles is less than a predetermined level.

- 18. The method of claim 16 wherein the sheet articles are removed by removing resource units from the bottom of the stack.
- 5 19. The method of claim 16 wherein indicating when the stack of sheet articles reaches a predetermined level includes:
 - (a) detecting when the level of the stack of sheet articles is equal to a second predetermined level;
 - (b) when the level of the stack of sheet articles is equal to the second predetermined level, determining the number of sheet articles removed from the stack; and
 - (c) when the number of sheet articles removed from the stack is equal to the predetermined number, indicating the stack is equal to the predetermined level.
- 15 20. The method of claim 16 further including disabling the moving of sheet articles when the stack of sheet articles reaches the predetermined level.
 - 21. A system for monitoring resource units in a stack, the system comprising:
 - (a) a container for containing a group of resource units;
 - (b) a device for measuring a thickness of one or more of the resource units; and
 - (c) an indicator for indicating when the group of resource units reaches a predetermined size after one or more of the resource units has been moved from the group.
- The system of claim 21 wherein the group of resource units is a group of
 sheet articles in a mail insertion system.

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- 23. The system of claim 21 further comprising a measurement detector for detecting the size of the group of resource units prior to any resource units being moved from the group.
- 24. The system of claim 23 wherein the measurement detector includes a sensor for determining whether the size of the group of resource units is less than a second predetermined size.
 - 25. The system of claim 21 further including a counter for determining the number of resource units removed from the container.
 - 26. The system of claim 25 further including:
 - (a) a mechanical device for removing resource units from the container; and
 - (b) a controller for indicating to the counter the removal of one or more resource units.
- 27. The system of claim 21 wherein the indicator includes a display for providing a visual display of information to an operator.
- 28. The system of claim 27 wherein the display provides an indication to the operator when the group of resource units reaches the predetermined size.
- 29. A system for monitoring resource units in a group of resource units,20 comprising:
 - (a) a detector for detecting size of a group of resource units; and
 - (b) a controller for calculating, based upon the thickness of at least one of the resource units, when the group of resource units reaches a predetermined size after one or more resource units has been moved from the group.

- 30. The system of claim 29 wherein the group of resource units is a group of sheet articles in a mail insertion system.
- 31. The system of claim 29 wherein the measurement detector detects the size of resource units prior to any resource units being moved from the group.
- 32. The system of claim 29 wherein the measurement detector includes a sensor for determining whether the size of the group of resource units is less than a second predetermined size.
- 33. The system of claim 21 further including a counter for determining the number of resource units moved from the group.
- 34. The system of claim 33 further including:
 - (a) a mechanical device for removing resource units from the container; and
 - (b) a means for indicating the removal of one or more resource units.
- 15 35. The system of claim 29 further including a display for providing a visual display of information to an operator.
 - 36. The system of claim 35 wherein the display provides an indication to the operator when the group of resource units reaches the predetermined size.
- 20 37. A system for controlling removal of sheet articles from a stack, comprising:
 - (a) a detector for detecting a level of a stack of sheet articles;
 - (b) a mechanical device for removing one or more sheet articles from the stack;

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- (c) a device for determining a thickness of at least one of the sheet articles removed from the stack; and
- (d) an indicator for indicating, responsive to the determination of thickness by the device, when the stack of sheet articles reaches a predetermined level and selectively stopping removal of sheet articles from the stack.
- 38. The system of claim 37 further including a counter for determining the number of resources removed from the stack of sheet articles.
- 39. The system of claim 37 further including a display for providing a visual display of information to an operator.
- 40. The system of claim 39 wherein the display provides an indication to the operator when the stack of sheet articles reaches the predetermined level.
- 41. A computer program product for monitoring resource units in a stack, the computer program product comprising computer-executable instructions embodied in a computer-readable medium for performing steps comprising:
 - (a) detecting a size of resource units in a group of resource units;
 - (b) calculating, based upon the thicknesses of at least one of the resource units, when the group of resource units reaches a predetermined size after one or more resource units has been moved from the group.
- 42. The computer program product of claim 41 further comprising detecting the size of the group of resource units prior to any resource units being moved from the group.

- 43. The computer program product of claim 41 wherein the calculating step further includes: .
 - (a) determining whether the number of resource units moved from the group is equal to a predetermined number; and
 - (b) indicating that the size of the resource units is equal to the predetermined number when the number of resource units moved is equal to the predetermined number.

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